

Amendments to the Claims

Listing of Claims:

Claim 1 - 13 (canceled).

Claim 14 (previously presented). A transmission apparatus, comprising:

an input terminal for receiving at least one transmission signal, and at least one output terminal to be coupled to a transmission channel;

at least one pulse-generating circuit connected between said input terminal and said output terminal, said pulse-generating circuit having at least one actuating input and generating a pulse sequence with at least one pulse as predetermined by the transmission signal; and

an interference signal detection circuit connected between said output terminal of the transmission apparatus and said actuating input of said pulse-generating circuit, said interference signal detection circuit providing an actuating signal causing the pulse-generating circuit to generate the pulse sequence again as stipulated by the actuating signal.

Claim 15 (canceled).

Claim 16 (previously presented). A transmission apparatus, comprising:

an input terminal for receiving at least one transmission signal, and at least one output terminal to be coupled to a transmission channel;

at least one pulse-generating circuit connected between said input terminal and said output terminal, said pulse-generating circuit having at least one actuating input and generating a pulse sequence with at least one pulse as predetermined by the transmission signal;

an interference signal detection circuit connected to said pulse-generating circuit, said interference signal detection circuit providing an actuating signal causing the pulse-generating circuit to generate the pulse sequence again as stipulated by the actuating signal; and

a sensor disposed adjacent the transmission channel, and wherein said interference signal detection circuit is connected between said sensor and said actuating input of said pulse-generating circuit.

Claim 17 (previously presented). A transmission apparatus, comprising:

an input terminal for receiving at least one transmission signal, and at least one output terminal to be coupled to a transmission channel;

at least one pulse-generating circuit connected between said input terminal and said output terminal, said pulse-generating circuit having at least one actuating input and generating a pulse sequence with at least one pulse as predetermined by the transmission signal; and

an interference signal detection circuit connected to said pulse-generating circuit, said interference signal detection circuit providing an actuating signal causing the pulse-generating circuit to generate the pulse sequence again as stipulated by the actuating signal, said interference signal detection circuit having a detector circuit, connected to said output terminal of the transmission apparatus, and an actuating-signal-generating circuit, connected downstream of said detector circuit, in a signal flow direction, said actuating-signal-generating circuit providing the actuating signal in dependence on an output signal from said detector circuit.

Claim 18 (original). The transmission apparatus according to claim 17, wherein said actuating-signal-generating circuit is configured to also generate the actuating signal in dependence on the at least one pulse sequence.

Claim 19 (previously presented). A transmission apparatus, comprising:

an input terminal for receiving at least one transmission signal, and at least one output terminal to be coupled to a transmission channel;

at least one pulse-generating circuit connected between said input terminal and said output terminal, said pulse-generating circuit having at least one actuating input and generating a pulse sequence with at least one pulse as predetermined by the transmission signal; and

an interference signal detection circuit connected to said pulse-generating circuit, said interference signal detection circuit providing an actuating signal causing the

pulse-generating circuit to generate the pulse sequence again as stipulated by the actuating signal, wherein:

said at least one output terminal is one of two output terminals including a first output terminal, for coupling to a first channel, and a second output terminal, for coupling to a second channel;

said input terminal and said first output terminal having a first pulse-generating circuit connected therebetween, and said input terminal and said second output terminal having a second pulse-generating circuit connected therebetween;

said first output terminal and a control input of said first pulse-generating circuit having a first interference signal detection circuit for providing a first actuating signal connected therebetween; and

said second output terminal and a control input of said second pulse-generating circuit having a second interference signal detection circuit for providing a second actuating signal connected therebetween.

Claim 20 (previously presented). The transmission apparatus according to claim 19, wherein:

said first pulse-generating circuit is configured to provide the pulse sequence again as predetermined by the first actuating signal and as predetermined by the second actuating signal; and

said second pulse-generating circuit is configured to provide the pulse sequence again as predetermined by the second actuating signal and as predetermined by the first actuating signal.

Claim 21 (previously presented). The transmission apparatus according to claim 20, wherein:

said first interference signal detection circuit is configured to generate the first actuating signal as predetermined by a second status signal indicating whether or not a second pulse sequence is being transmitted to the second channel; and

said second interference signal detection circuit is configured to generate the second actuating signal as predetermined by a first status signal indicating whether or not a first pulse sequence is being transmitted to the first channel.

Claim 22 (original). The transmission apparatus according to claim 14, wherein said at least one pulse-generating circuit is configured to generate the pulse sequence after a prescribed edge of the input signal.

Claim 23 (previously presented). A transmission apparatus, comprising:

an input terminal for receiving at least one transmission signal, and at least one output terminal to be coupled to a transmission channel;

at least one pulse-generating circuit connected between said input terminal and said output terminal, said pulse-generating circuit having at least one actuating input and

generating a pulse sequence with at least one pulse as predetermined by the transmission signal; and

an interference signal detection circuit connected to said pulse-generating circuit, said interference signal detection circuit providing an actuating signal causing the pulse-generating circuit to generate the pulse sequence again as stipulated by the actuating signal, wherein said at least one pulse-generating circuit is configured to repeat the pulse sequence after a prescribed edge of the actuating signal and at a prescribed level of the input signal.

Claim 24 (original). A signal transmission assembly, comprising:

a transmission apparatus according to claim 14; and

a receiver apparatus having a receiver coupled to the channel and a driver coupled to the channel and configured to output signals to the channel to be detected in said transmission apparatus as interference signals.

Claim 25 (canceled).